

## Rabbit anti-Human MPHOSPH10 Polyclonal Antibody | anti-MPHOSPH10 antibody

Anti-MPHOSPH10 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                   |
|-----------|--------|------------|------------------------------------------------------------------------------------------------|
| AAA127715 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

MPHOSPH10; Polyclonal Antibody; Anti-MPHOSPH10 Antibody Picoband; interleukin 17B; Interleukin-17B; IL-17B; Cytokine CX1; Cytokine-like protein ZCYTO7; Neuronal interleukin-17-related factor; IL17b; Nirf; Zcyto7; anti-MPHOSPH10 antibody

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                                                                                                                |
| Reactivity                                          | Human                                                                                                                                                                                                                 |
| Clonality                                           | Polyclonal                                                                                                                                                                                                            |
| Isotype                                             | Rabbit IgG                                                                                                                                                                                                            |
| Specificity                                         | Expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Less pronounced expression in prostate, colon mucosal lining, and ovary.                                                               |
| Purity/Purification                                 | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                         | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.                                                                                                                                          |
| Applicable Applications for anti-MPHOSPH10 antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                               |
| Immunogen                                           | E coli-derived human MPHOSPH10 recombinant protein (Position: L15-A661).                                                                                                                                              |
| Subcellular Localization                            | Secreted                                                                                                                                                                                                              |
| Reconstitution                                      | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                                    | No cross-reactivity with other proteins.                                                                                                                                                                              |
| Protein Function                                    | Stimulates the release of tumor necrosis factor alpha and IL-1-beta from the monocytic cell line THP-1.                                                                                                               |
| Preparation and Storage                             | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-MPHOSPH10 antibody (AAA127715). Overlay histogram showing HepG2 cells stained with AAA127715 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MPHOSPH10 Antibody (AAA127715, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### IF (Immunofluorescence)

Figure 2. IF analysis of MPHOSPH10 using anti-MPHOSPH10 antibody (AAA127715) and anti-Beta Tubulin antibody (M01857-3). MPHOSPH10 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MPHOSPH10 Antibody (AAA127715) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



**WB (Western Blot)**

Figure 1. Western blot analysis of MPHOSPH10 using anti-MPHOSPH10 antibody (AAA127715). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human HEL whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MPHOSPH10 antigen affinity purified polyclonal antibody (#AAA127715) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MPHOSPH10 at approximately 120 kDa. The expected band size for MPHOSPH10 is at 120 kDa.

**ADDITIONAL INFORMATION**

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MPHOSPH10 antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                                                                                                                                       |
| Product Categories/Family for anti-MPHOSPH10 antibody   | <a href="#">Primary Antibodies</a> ; <a href="#">Cytokines</a> ; <a href="#">Immunology</a> ; <a href="#">Innate Immunity</a> ; <a href="#">Interleukins</a>                                                                                                                                                                                                                                                                                                            |
| References                                              | 1. Matsumoto-Taniura, N., Pirolet, F., Monroe, R., Gerace, L., Westendorf, J. M. Identification of novel M phase phosphoproteins by expression cloning. Molec. Biol. Cell 7: 1455-1469, 1996.2. Westendorf, J. M., Konstantinov, K. N., Wormsley, S., Shu, M.-D., Matsumoto-Taniura, N., Pirolet, F., Klier, F. G., Gerace, L., Baserga, S. J. M phase phosphoprotein 10 is a human U3 small nucleolar ribonucleoprotein component. Molec. Biol. Cell 9: 437-449, 1998. |

**NCBI AND UNIPROT INFORMATION**

|                                  |                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">31317305</a>                                                                                                     |
| NCBI GeneID                      | <a href="#">10199</a>                                                                                                        |
| NCBI Accession #                 | <a href="#">NP_005782</a>                                                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005791</a>                                                                                                    |
| UniProt Accession #              | <a href="#">O00566</a> ; <a href="#">A0AVJ8</a>                                                                              |
| Molecular Weight                 | 78,864 Da                                                                                                                    |
| NCBI Official Full Name          | U3 small nucleolar ribonucleoprotein protein MPP10                                                                           |
| NCBI Official Synonym Full Names | M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein)                                                             |
| NCBI Official Symbol             | MPHOSPH10                                                                                                                    |
| NCBI Official Synonym Symbols    | CT90; MPP10; MPP10P; PPP1R106                                                                                                |
| NCBI Protein Information         | U3 small nucleolar ribonucleoprotein protein MPP10; m phase phosphoprotein 10; protein phosphatase 1, regulatory subunit 106 |
| UniProt Protein Name             | U3 small nucleolar ribonucleoprotein protein MPP10                                                                           |
| UniProt Gene Name                | <b>MPHOSPH10</b>                                                                                                             |
| UniProt Synonym Gene Names       | MPP10                                                                                                                        |
| UniProt Entry Name               | MPP10_HUMAN                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mposph10-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127715>